

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
30 June 2005 (30.06.2005)

PCT

(10) International Publication Number
WO 2005/059902 A3

(51) International Patent Classification⁷:

G03H 1/10

(21) International Application Number:

PCT/US2004/041793

(22) International Filing Date:

10 December 2004 (10.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/529,013 12 December 2003 (12.12.2003) US

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

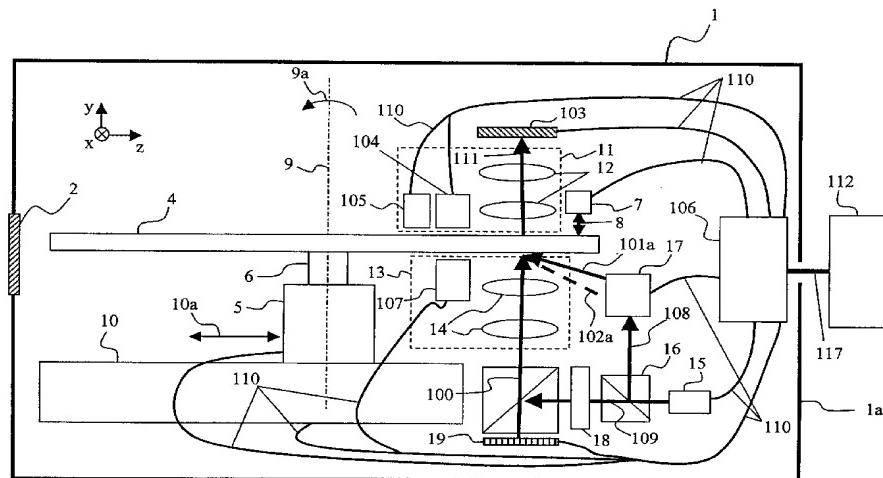
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: METHODS AND APPARATUS FOR THE FIXING OF HOLOGRAPHIC MEDIA IN HOLOGRAPHIC DATA STORAGE SYSTEMS



(57) Abstract: Holographic data storage systems are fixed after exposure during which data in the form of holograms are stored at locations in the medium (4). Sufficient fixing energy in the form of light or other electromagnetic and thermal radiation is applied to the media (4) either by flooding the media, or to specific locations where the medium has been written. The energy is sufficient to expose the recorded medium (4) to prevent recording in the unused dynamic range thereof. Such recording can be a spurious recording made during readout or from spurious sources of light incident on the media. In one embodiment, the reference beam (108) produced in the course of holographic recording is redirected to locations on the media (4) which have already been recorded. The redirected beam post exposes the media to fix these locations against spurious recording. The integrity of the holographic data storage systems and the robustness thereof is improved by fixing methods and apparatus incorporating the invention.

WO 2005/059902 A3



(88) Date of publication of the international search report:
25 August 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.